

What Is Claimed Is:

1. A circuit system for generating a stabilized supply voltage comprising:  
a voltage regulator having at least two operating modes,  
wherein at least one temperature quantity is recorded which at least  
one of represents and influences an operation of the circuit system, and an  
operating mode is selected as a function of the temperature quantity.
2. The circuit system according to claim 1, wherein the circuit system is for  
electronic consumers in motor vehicles.
3. The circuit system according to claim 1, further comprising at least one of a  
first regulator and a second regulator, wherein, in a first operating mode, at least one  
of the first and second regulators is activated, and, in a second operating mode, the  
second regulator is activated.
4. The circuit system according to claim 3, wherein the first regulator is a linear  
regulator.
5. The circuit system according to claim 3, wherein the second regulator is a  
switching regulator.
6. The circuit system according to claim 3, wherein the first regulator is  
connected in parallel to the second regulator.
7. The circuit system according to claim 1, wherein the temperature quantity  
represents a temperature at at least one component of the circuit system.
8. The circuit system according to claim 1, wherein the temperature quantity  
represents a current flow and, thus, a temperature at the voltage regulator.

9. The circuit system according to claim 3, further comprising a comparison element for comparing the recorded temperature quantity to a predefined threshold value.
10. The circuit system according to claim 9, further comprising means for recognizing an exceeding of the threshold value by the temperature quantity and, as a function of the recognized exceedance, for deactivating the first regulator and activating the second regulator.